查询XFGN-6050KPGSR供应商

Pre-amplified/5V Excitation/Gauge XFPN,XFGN-6 Data sheet

■Features

- Volt level output
- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span
- Surface mount package (XFGN)

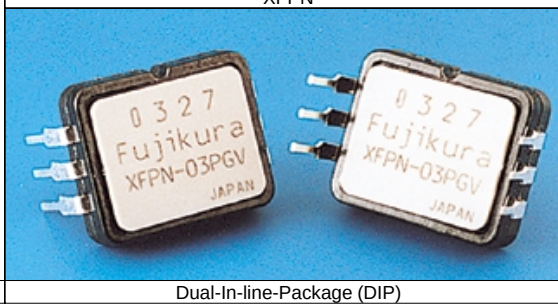
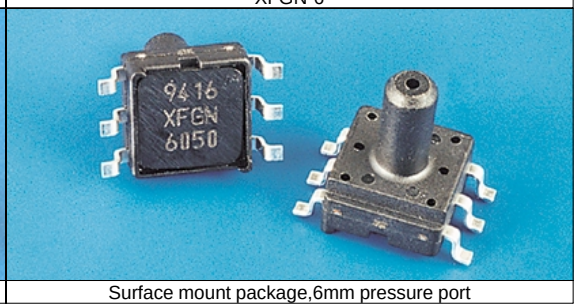
■Applications

- Non-Invasive Blood Pressure(NIBP)monitor for home health care
- Vacuum cleaner
- Washing machine

■Part number for ordering

XFGN - 6 025KP G S R

- Model: XFPN / XFGN
- Length of the pressure port (XFGN only): 6 : 6mm
- Rated pressure (Pa)
- Pressure type: G : Gauge (Positive pressure); GV : Gauge (Negative pressure)
- Terminal leads configuration: No mark : DIP (XFPN); S : Surface mount package (XFGN)
- Terminal leads direction (See Outline Diagram): No mark : ; R :

Pressure type	Gauge pressure	
	XFPN	XFGN-6
Model		
Package configuration	Dual-In-line-Package (DIP)	Surface mount package,6mm pressure port

Measurable pressure range (kPa)	Part number for ordering		
0～—24.5	XFPN-03PGV	XFPN-03PGVR	XFGN-603PGVSR
0～—100	XFPN-100KPGV	XFPN-100KPGVR	XFGN-6100KPGVSR
0～25	XFPN-025KPG	XFPN-025KPGR	XFGN-6025KPGSR
0～50	XFPN-050KPG	XFPN-050KPGR	XFGN-6050KPGSR
0～100	XFPN-100KPG	XFPN-100KPGR	XFGN-6100KPGSR
0～200	XFPN-200KPG	XFPN-200KPGR	XFGN-6200KPGSR

■Specifications

Model/Rated pressure	03PGV	100KPGV	025KPG	050KPG	100KPG	200KPG	Unit
Recommended operating conditions							
Pressure type	Gauge pressure						—
Rated pressure	—24.5	—100	25	50	100	200	kPa
	—0.250	—1.020	0.255	1.020	1.020	2.040	kg/cm²
Pressure media	Non-corrosive gas						—
Excitation voltage	5±0.25						VDC
Absolute maximum rating							
Maximum load pressure	Twice of rated pressure						—
Maximum excitation voltage	8						VDC
Operating temperature	—10～80						℃
Storage temperature	—20～100						℃
Operating humidity	30～80 (No dew condensation)						%RH
Electric performances/characteristics (Excitation voltage Vcc=5.0V constant, Ambient temperature Ta=25℃)							
Current consumption	less than 10						mA
Output impedance	less than 10						Ω
Source current	less than 0.2						mA
Sink current	less than 2						mA
Mechanical response time	2 (For the reference)						msec
Full scale span voltage	4.0						V
Offset voltage ※	0.5±0.1						V
Full scale span voltage ※	4.5±0.1						V
Accuracy ※	±5.0						%FS/0～50℃

Note ; ※Excluding input voltage error.

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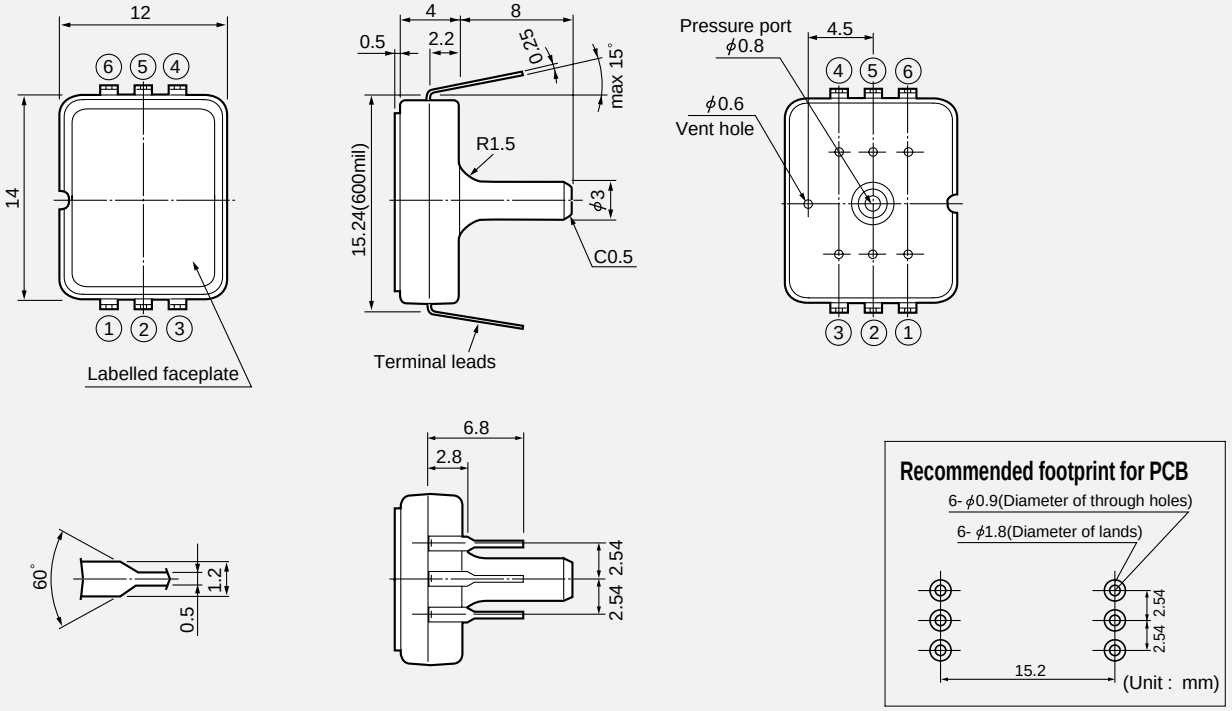
■Outline dimensions■

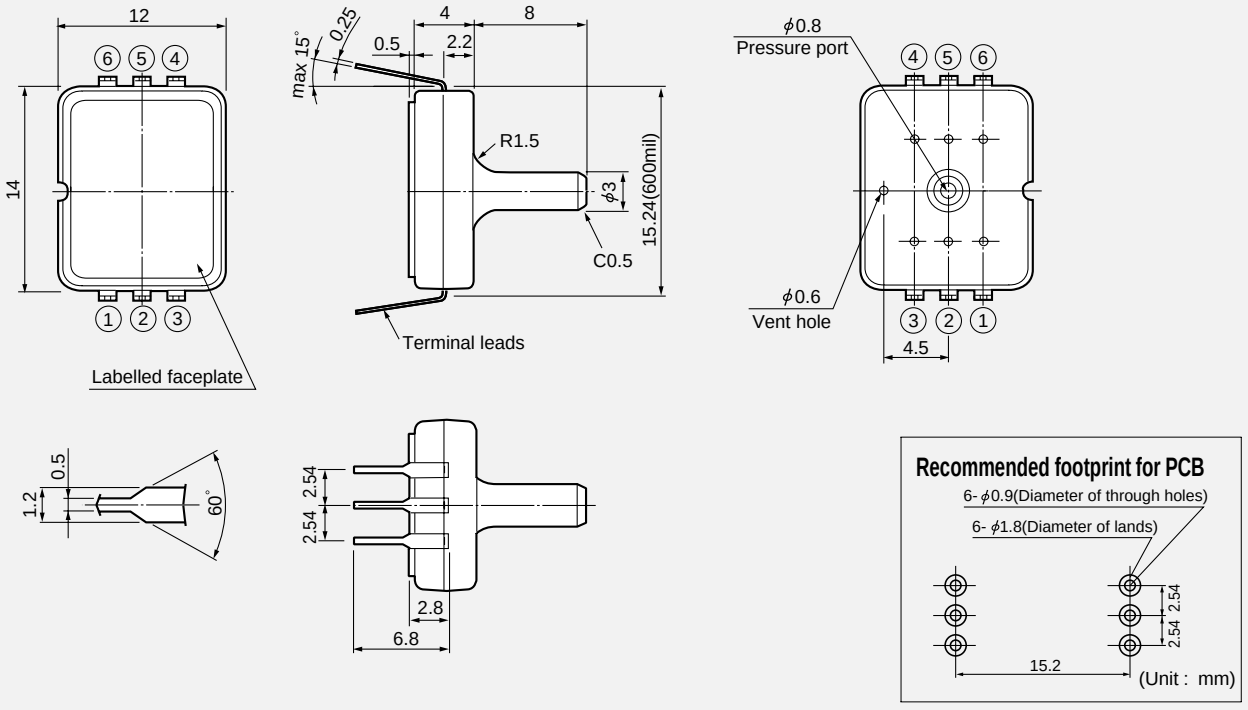
Unit : mm

XFPN



Unit : mm

XFPN-R



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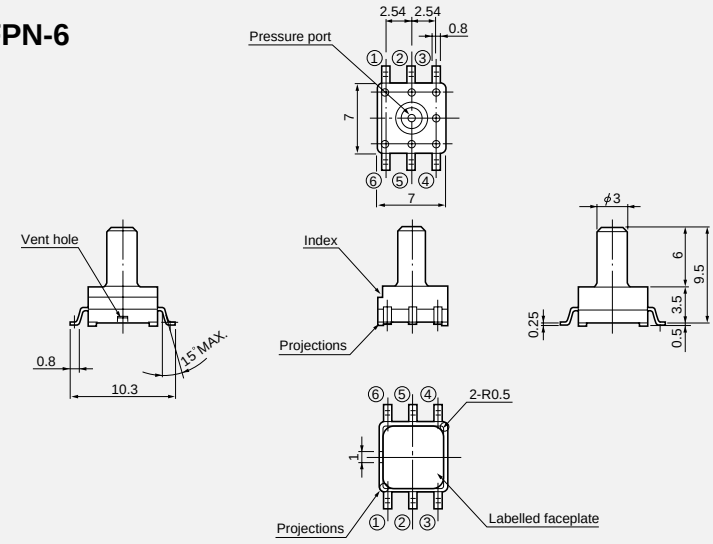
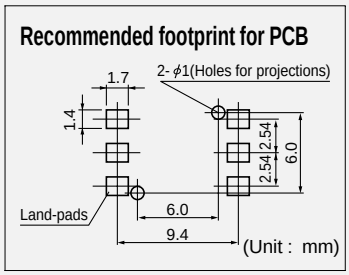
■Outline dimensions■

XFPN-6

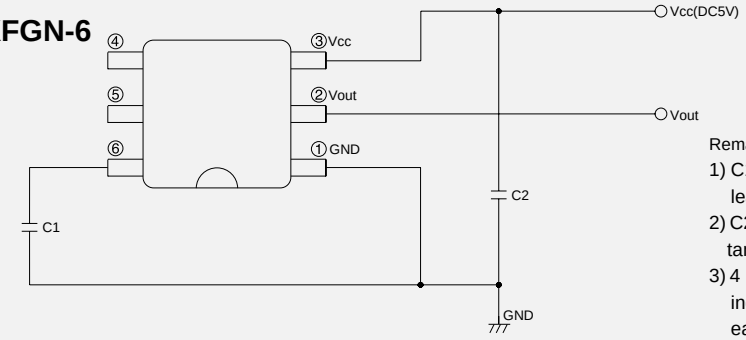
Unit : mm





■Connection diagram■

XFPN, XFGN-6



Remarks :
1) C1 : Connect 680pF capacitor within 2cm distance from leads.
2) C2 : Connect 0.01 μF or more capacitor within 2cm distance from leads.
3) 4 and 5 pins must be No Connection. Open them as floating ones completely, and do NOT connect to other line or each other.

■Transfer Function■

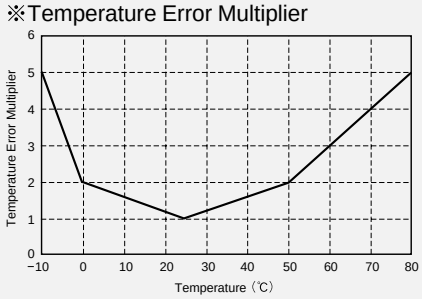
Vout=Vs×(P×α+β)±(Pressure Error×Temperature Error Multiplier×α× Vs)

※Vs=5.0volts Notes ; The output voltage (Vout) is no perfect ratiometric with the power supply voltage.

※P=Input Pressure(kPa)

Model	pressure range	α	β	Pressure Error(kPa)
03PGV	0～−24.5kPa	−0.03266	0.1	0.612
025KPG	0～25kPa	0.032	0.1	0.625
050KPG	0～50kPa	0.016	0.1	1.25
100KPG	0～100kPa	0.008	0.1	2.5
100KPGV	0～−100kPa	−0.008	0.1	2.5
200KPG	0～200kPa	0.004	0.1	5.0

※Temperature Error Multiplier



Note ; Please read instruction “Notes” before using the sensor.
Fujikura reserves the right to change specifications without notice.

Fujikura Ltd.
If you have any questions regarding technical issues or specifications, please contact us.
Sensor Engineering Department 5-1 Kiba 1-chome, Koto-ku, Tokyo 135-8512, Japan
Phone +81-(0)3-5606-1072 Fax. +81-(0)3-5606-1538
E-mail : sensor@fujikura.co.jp